

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
January
2013

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project (SWP) has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Contractors, public agencies, consultants, and others with the daily and monthly status of SWP's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of month of publication, January 2015. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities, actions, and conditions affected State Water Project (SWP) operations during January 2013:

Statewide precipitation was about 100 percent of average for water year 2012 – 2013 through January 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources (DWR) in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the State's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. Snowpack water content for January 2013 was about 90 percent of average compared to 35 percent at this time in 2012. This was about 55 percent of the April 1 average, the normal date of maximum accumulation.

Cumulative unimpaired runoff for the Sacramento River Region for water year 2012 – 2013 was 5.9 maf, 105 percent of average. Statewide runoff for water year 2012 – 2013 was 100 percent of average.

Statewide reservoir storage was 105 percent of average to date. Total storage in major SWP reservoirs at the end of January was about 3.77 maf compared to 4.03 maf at this time in 2012. On January 31, end-of-month storage at Lake Oroville was about 2.69 maf, as compared to 2.54 maf at this time in 2012. The State share of San Luis Reservoir's end-of-month storage was about 486 taf, as compared with 996 taf at this time in 2012. The combined storage in SWP's southern reservoirs was about 587 taf, compared with about 591 taf at this time in 2012.

The cumulative SWP water deliveries to date through January were about 150 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2012 were 282 taf.

By mutual agreement between the U.S. Bureau of Reclamation (USBR) and DWR in accordance with Article 6(h) of the Coordinated Operation Agreement (COA), conditions remained in “Excess” with accounting suspended in January. “Excess” conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports. COA conditions included restrictions to reflect fish concerns throughout the month. The end-of-month USBR COA balance was 58,195 cfs in favor of USBR.

There were three measurable earthquakes within the vicinity of the SWP in January; however, no facilities were found to meet inspection criteria.

During the month of January, there were 18 days with fish salvage reports including Delta smelt, steelhead, and salmon.

On January 25, the State Emergency Services reported a 3,700-gallon diesel spill in Plumas County near the Feather River, caused by a large boulder striking the lead train engine that punctured the diesel fuel tank. Feather River response/clean-up crews were alerted, and spill into North Fork was minor.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Dec 31	5,002.16	22,713									
1	5,002.16	22,713	0	5	0	0	7	2	14	14	
2	5,002.16	22,713	0	5	0	0	7	2	14	14	
3	5,002.16	22,713	0	5	0	0	7	1	13	13	
4	5,002.17	22,722	9	5	0	0	10	1	16	21	
5	5,002.17	22,722	0	5	0	0	10	1	16	16	
6	5,002.17	22,722	0	5	0	0	10	1	16	16	
7	5,002.17	22,722	0	5	0	0	10	1	16	16	
8	5,002.17	22,722	0	5	0	0	10	1	16	16	
9	5,002.21	22,760	38	5	0	0	14	1	20	39	
10	5,002.21	22,760	0	5	0	0	14	1	20	20	
11	5,002.21	22,760	0	5	0	0	14	1	20	20	
12	5,002.19	22,741	-19	5	0	0	12	1	18	8	
13	5,002.18	22,732	-9	5	0	0	11	1	17	12	
14	5,002.17	22,722	-10	5	0	0	10	1	16	11	
15	5,002.17	22,722	0	5	0	0	10	1	16	16	
16	5,002.17	22,722	0	5	0	0	10	1	16	16	
17	5,002.17	22,722	0	5	0	0	10	1	16	16	
18	5,002.17	22,722	0	5	0	0	10	1	16	16	
19	5,002.16	22,713	-9	5	0	0	7	1	13	8	
20	5,002.16	22,713	0	5	0	0	7	1	13	13	
21	5,002.16	22,713	0	5	0	0	7	1	13	13	
22	5,002.16	22,713	0	5	0	0	7	1	13	13	
23	5,002.27	22,816	103	5	0	0	17	1	23	75	
24	5,002.27	22,816	0	5	0	0	17	1	23	23	
25	5,002.30	22,844	28	5	0	0	20	1	26	40	
26	5,002.36	22,900	56	5	0	0	27	1	33	61	
27	5,002.39	22,928	28	5	0	0	30	1	36	50	
28	5,002.40	22,937	9	5	0	0	32	1	38	43	
29	5,002.40	22,937	0	5	0	0	32	1	38	38	
30	5,002.40	22,937	0	5	0	0	32	1	38	38	
31	5,002.40	22,937	0	5	0	0	32	1	38	38	
Total cfs-days				155	0	0	453	33	641	754	
Total ac-ft				224	307	0	899	65	1,271	1,495	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Dec 31	5572.87	34,646									
1	5572.87	34,646	0	2	0	0	0	1	3	3	
2	5572.87	34,646	0	2	0	0	0	1	3	3	
3	5572.89	34,669	23	2	0	0	0	1	3	15	
4	5572.89	34,669	0	2	0	0	0	1	3	3	
5	5572.91	34,693	24	2	0	0	0	1	3	15	
6	5572.94	34,728	35	2	0	0	0	1	3	21	
7	5572.96	34,752	24	2	0	0	0	1	3	15	
8	5572.96	34,752	0	2	0	0	0	1	3	3	
9	5572.96	34,752	0	2	0	0	0	1	3	3	
10	5573.01	34,811	59	2	0	0	0	1	3	33	
11	5573.02	34,823	12	2	0	0	0	1	3	9	
12	5573.04	34,847	24	2	0	0	0	1	3	15	
13	5573.08	34,894	47	2	0	0	0	1	3	27	
14	5573.09	34,906	12	2	0	0	0	1	3	9	
15	5573.09	34,906	0	2	0	0	0	1	3	3	
16	5573.09	34,906	0	2	0	0	0	1	3	3	
17	5573.11	34,929	23	2	0	0	0	1	3	15	
18	5573.14	34,965	36	2	0	0	0	1	3	21	
19	5573.14	34,965	0	2	0	0	0	1	3	3	
20	5573.14	34,965	0	2	0	0	0	1	3	3	
21	5573.14	34,965	0	2	0	0	0	2	4	4	
22	5573.15	34,977	12	2	0	0	0	2	4	10	
23	5573.15	34,977	0	2	0	0	0	2	4	4	
24	5573.17	35,000	23	2	0	0	0	2	4	16	
25	5573.21	35,048	48	2	0	0	0	2	4	28	
26	5573.23	35,072	24	2	0	0	0	2	4	16	
27	5573.25	35,095	23	2	0	0	0	2	4	16	
28	5573.29	35,143	48	2	0	0	0	2	4	28	
29	5573.32	35,179	36	2	0	0	0	2	4	22	
30	5573.32	35,179	0	2	0	0	0	2	4	4	
31	5573.35	35,214	35	2	0	0	0	2	4	22	
Total cfs-days				62	0	0	0	42	104	390	
Total ac-ft				568	123	0	0	83	206	774	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Dec 31	5,769.74	64,613									
1	5,769.74	64,613	0	10	0	0	0	3	13	13	
2	5,769.74	64,613	0	10	0	0	0	4	14	14	
3	5,769.74	64,613	0	10	0	0	0	4	14	14	
4	5,769.74	64,613	0	10	0	0	0	4	14	14	
5	5,769.73	64,578	-35	10	0	0	0	4	14	-4	
6	5,769.73	64,578	0	10	0	0	0	4	14	14	
7	5,769.73	64,578	0	15	0	0	0	4	19	19	
8	5,769.72	64,543	-35	20	0	0	0	4	24	6	
9	5,769.74	64,613	70	20	0	0	0	4	24	59	
10	5,769.75	64,648	35	20	0	0	0	4	24	42	
11	5,769.75	64,648	0	20	0	0	0	4	24	24	
12	5,769.75	64,648	0	20	0	0	0	4	24	24	
13	5,769.76	64,683	35	20	0	0	0	4	24	42	
14	5,769.76	64,683	0	20	0	0	0	4	24	24	
15	5,769.75	64,648	-35	20	0	0	0	4	24	6	
16	5,769.74	64,613	-35	20	0	0	0	4	24	6	
17	5,769.74	64,613	0	20	0	0	0	4	24	24	
18	5,769.73	64,578	-35	20	0	0	0	4	24	6	
19	5,769.72	64,543	-35	20	0	0	0	4	24	6	
20	5,769.71	64,508	-35	20	0	0	0	4	24	6	
21	5,769.71	64,508	0	20	0	0	0	4	24	24	
22	5,769.69	64,439	-69	20	0	0	0	4	24	-11	
23	5,769.68	64,404	-35	20	0	0	0	4	24	6	
24	5,769.67	64,369	-35	20	0	0	0	4	24	6	
25	5,769.67	64,369	0	20	0	0	0	4	24	24	
26	5,769.67	64,369	0	20	0	0	0	4	24	24	
27	5,769.73	64,578	209	20	0	0	0	4	24	129	
28	5,769.73	64,578	0	20	0	0	0	4	24	24	
29	5,769.73	64,578	0	20	0	0	0	4	24	24	
30	5,769.73	64,578	0	20	0	0	0	4	24	24	
31	5,769.73	64,578	0	20	0	0	0	4	24	24	
Total cfs-days				555	0	0	0	123	678	660	
Total ac-ft				-35	1,101	0	0	244	1,345	1,310	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes Plumas County and Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation
(in acre-feet except as noted)
Capacity: 3,537,580 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/	
Dec 31	828.10	2,525,097											
1	828.38	2,528,588	3,491	5,792	0	0	1	34	0	5,827	0	9,318	
2	828.73	2,532,956	4,368	5,746	0	0	1	46	0	5,793	0	10,161	
3	829.08	2,537,329	4,373	5,748	0	0	1	31	0	5,780	0	10,153	
4	829.31	2,540,206	2,877	5,859	0	0	1	38	0	5,898	0	8,775	
5	829.89	2,547,471	7,265	2,412	0	0	0	23	0	2,435	0	9,700	
6	830.47	2,554,750	7,279	3,316	0	0	0	31	0	3,347	0	10,626	
7	830.71	2,557,766	3,016	6,844	0	0	0	31	0	6,875	0	9,891	
8	830.90	2,560,156	2,390	5,909	0	0	0	16	0	5,925	0	8,315	
9	831.24	2,564,436	4,280	5,941	0	0	0	16	0	5,957	0	10,237	
10	831.56	2,568,469	4,033	5,886	0	0	0	8	0	5,894	0	9,927	
11	831.92	2,573,012	4,543	5,858	0	0	0	16	0	5,874	0	10,417	
12	832.50	2,580,342	7,330	2,644	0	0	0	16	0	2,660	0	9,990	
13	833.00	2,586,673	6,331	3,032	0	0	0	16	0	3,048	0	9,379	
14	833.40	2,591,745	5,072	4,642	0	0	0	140	0	4,782	0	9,854	
15	833.69	2,595,427	3,682	5,337	0	0	0	102	0	5,439	0	9,121	
16	834.14	2,601,147	5,720	3,388	0	0	0	39	0	3,427	0	9,147	
17	834.60	2,607,004	5,857	2,916	0	0	0	31	0	2,947	0	8,804	
18	835.03	2,612,487	5,483	3,495	0	0	0	24	0	3,519	0	9,002	
19	835.42	2,617,467	4,980	3,185	0	0	0	31	0	3,216	0	8,196	
20	835.81	2,622,454	4,987	3,110	0	0	0	31	0	3,141	0	8,128	
21	836.23	2,627,831	5,377	3,149	0	0	0	71	0	3,220	0	8,597	
22	836.66	2,633,345	5,514	3,164	0	0	0	71	0	3,235	0	8,749	
23	837.02	2,637,967	4,622	3,170	0	0	0	63	0	3,233	0	7,855	
24	837.62	2,645,683	7,716	3,097	0	0	0	16	0	3,113	0	10,829	
25	838.07	2,651,481	5,798	3,370	0	0	0	40	0	3,410	0	9,208	
26	838.55	2,657,674	6,193	3,156	0	0	0	24	0	3,180	0	9,373	
27	839.09	2,664,654	6,980	3,175	0	0	0	24	0	3,199	0	10,179	
28	839.60	2,671,258	6,604	3,155	0	0	0	80	0	3,235	0	9,839	
29	840.14	2,678,263	7,005	2,945	0	0	0	48	0	2,993	0	9,998	
30	840.66	2,685,016	6,753	2,976	0	0	0	72	0	3,048	0	9,801	
31	841.19	2,691,911	6,895	2,932	1	0	0	56	0	2,989	0	9,884	
Total				166,814	125,349	1	0	4	1,285	0	126,639	0	293,453

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Includes 0 AF Lime Saddle and 4 AF Butte County. Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation (in acre-feet except as noted)											January 2013
Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback	
Dec 31	23,423										
	1	23,672	249	5,792	486	0	2,997	0	2	3,545	0
	2	23,469	-203	5,746	315	0	3,017	0	2	3,545	0
	3	24,278	809	5,748	487	0	2,158	0	2	3,566	0
	4	24,289	11	5,859	491	0	3,271	0	2	3,588	0
	5	23,849	-440	2,412	497	0	22	0	2	3,586	0
	6	24,419	570	3,316	499	0	22	0	2	3,608	0
	7	24,372	-47	6,844	494	0	4,410	0	2	3,610	0
	8	23,979	-393	5,909	490	0	3,726	0	2	3,586	0
	9	24,082	103	5,941	490	0	3,369	0	2	3,586	0
	10	23,970	-112	5,886	490	0	3,369	0	2	3,586	0
	11	24,231	261	5,858	479	0	3,183	0	2	3,588	0
	12	23,979	-252	2,644	469	0	22	0	3	3,608	0
	13	24,185	206	3,032	478	0	22	0	3	3,608	0
	14	24,636	451	4,642	486	0	1,592	0	3	3,608	0
	15	24,429	-207	5,337	490	0	3,018	0	3	3,608	0
	16	24,354	-75	3,388	490	0	683	0	3	3,588	0
	17	23,598	-756	2,916	490	0	786	0	3	3,588	0
	18	23,488	-110	3,495	491	0	890	0	3	3,566	0
	19	23,896	408	3,185	491	0	22	0	3	3,586	0
	20	24,195	299	3,110	491	0	22	0	3	3,667	0
	21	23,905	-290	3,149	490	0	539	0	3	3,707	0
	22	24,204	299	3,164	490	0	22	0	3	3,707	0
	23	23,701	-503	3,170	491	0	766	0	3	3,687	0
	24	23,691	-10	3,097	492	0	191	0	3	3,685	0
	25	23,636	-55	3,370	491	0	611	1	3	3,685	0
	26	23,961	325	3,156	486	0	22	1	3	3,685	0
	27	24,298	337	3,175	491	0	22	1	3	3,687	0
	28	24,636	338	3,155	491	0	22	1	3	3,707	0
	29	23,423	-1,213	2,945	490	0	1,179	1	3	3,687	0
	30	23,571	148	2,976	490	0	22	1	3	3,646	0
	31	23,710	139	2,932	491	0	22	1	3	3,666	0
Total			287	125,349	14,987	0	40,019	7	82	112,373	0
1/ Sum of Thermalito Forebay and Diversion Pool.											3/ Includes Bypass flows at Thermalito.
2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.											4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Dec 31	131.20	36,256											
1	131.46	37,175	919	2,997	1,418	4	375	270	84	0	73	3,629	
2	131.75	38,214	1,039	3,017	1,424	5	377	276	88	0	192	3,633	
3	131.79	38,358	144	2,158	1,448	5	405	308	88	0	240	3,654	
4	132.06	39,339	981	3,271	1,458	4	416	349	88	0	25	3,676	
5	131.41	36,998	-2,341	22	1,458	4	415	349	88	0	-49	3,674	
6	130.81	34,896	-2,102	22	1,468	4	415	347	86	0	196	3,694	
7	131.37	36,856	1,960	4,410	1,490	4	415	349	84	0	-108	3,694	
8	131.77	38,286	1,430	3,726	1,508	4	418	389	86	0	109	3,672	
9	132.03	39,229	943	3,369	1,506	4	416	438	87	0	25	3,673	
10	132.29	40,183	954	3,369	1,494	4	416	456	87	0	42	3,673	
11	132.43	40,701	518	3,183	1,520	4	416	454	91	0	-180	3,679	
12	131.75	38,214	-2,487	22	1,527	4	415	452	89	0	-22	3,697	
13	131.06	35,765	-2,449	22	1,529	5	416	452	87	0	18	3,695	
14	130.85	35,035	-730	1,592	1,537	4	415	468	86	0	188	3,694	
15	130.93	35,312	277	3,018	1,537	5	417	484	86	0	-212	3,694	
16	130.78	34,793	-519	683	558	4	163	482	87	0	92	3,675	
17	130.88	35,139	346	786	0	4	0	508	87	0	159	3,675	
18	130.97	35,451	312	890	0	4	0	546	87	0	59	3,653	
19	130.79	34,827	-624	22	0	4	0	561	87	0	6	3,673	
20	130.60	34,175	-652	22	0	4	0	565	87	0	-18	3,754	
21	130.67	34,414	239	539	0	1	0	187	87	0	-25	3,794	
22	130.66	34,380	-34	22	0	0	0	0	87	0	31	3,794	
23	130.90	35,208	828	766	0	0	0	0	87	0	149	3,774	
24	130.98	35,486	278	191	0	0	0	0	87	0	174	3,772	
25	131.15	36,080	594	611	0	0	0	0	87	0	70	3,772	
26	131.14	36,045	-35	22	0	0	0	0	87	0	30	3,772	
27	131.14	36,045	0	22	0	0	0	0	84	0	62	3,771	
28	131.12	35,975	-70	22	0	0	0	0	84	0	-8	3,791	
29	131.45	37,140	1,165	1,179	0	0	0	0	86	0	72	3,773	
30	131.47	37,211	71	22	0	0	0	0	87	0	136	3,733	
31	131.45	37,140	-71	22	0	0	0	0	87	0	-6	3,753	
Total				884	40,019	22,880	85	6,310	8,690	2,690	0	1,520	115,063

1/ Includes Bypass flows at Thermalito.

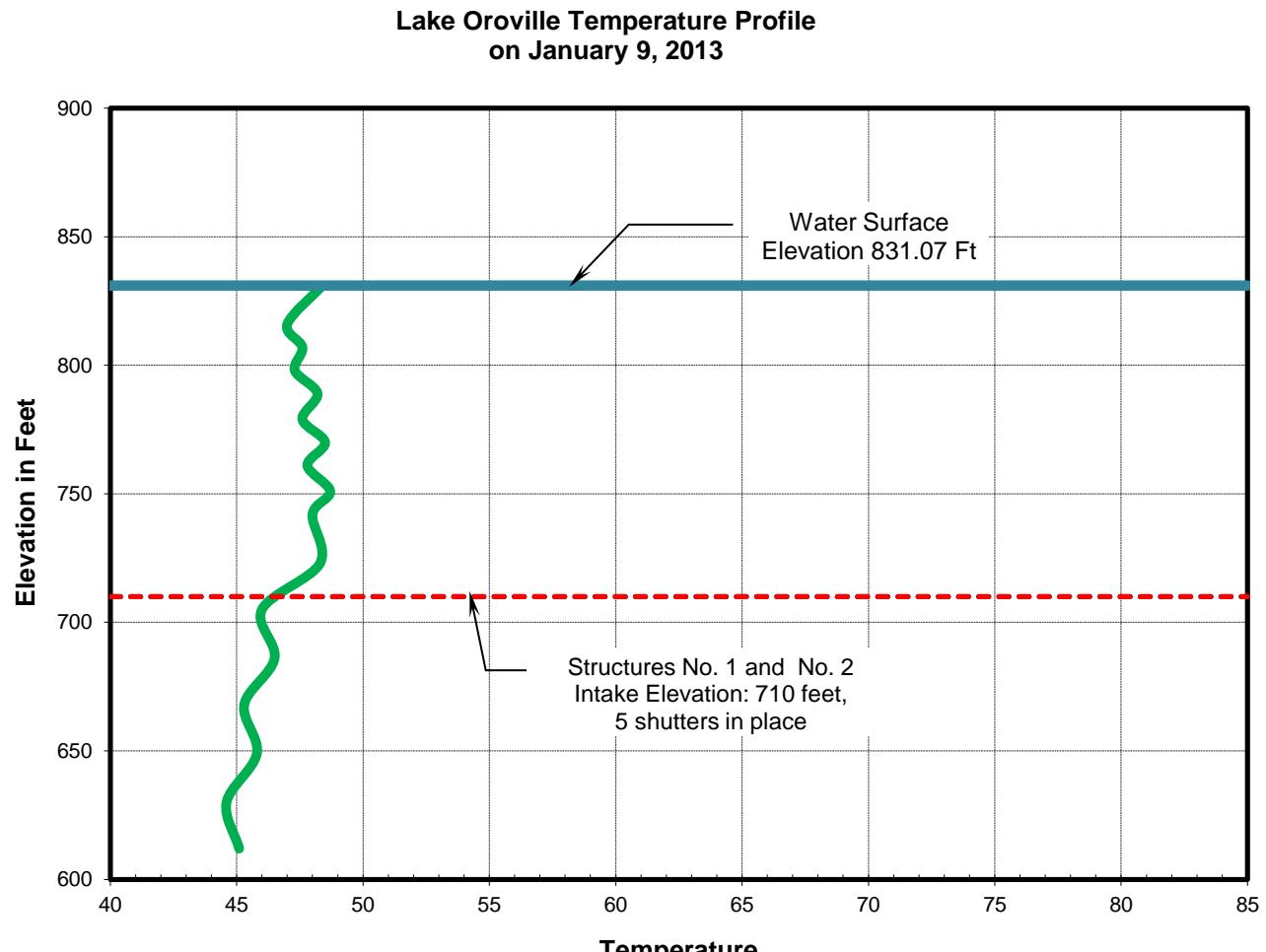
2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

Water Temperature Data
(in degrees Fahrenheit)

January 2013

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	43.8	47.3
2	43.7	47.2
3	43.5	47.0
4	43.2	47.0
5	43.3	46.9
6	43.8	47.0
7	43.5	46.7
8	44.1	46.8
9	43.6	46.8
10	43.8	46.6
11	43.3	46.4
12	43.0	46.2
13	42.2	46.1
14	41.0	45.8
15	41.2	45.5
16	41.3	45.6
17	41.7	45.7
18	42.2	45.6
19	42.5	45.6
20	42.8	45.5
21	42.8	45.6
22	43.2	45.6
23	43.0	45.7
24	44.1	45.9
25	45.4	46.2
26	45.4	46.3
27	45.9	46.4
28	46.4	46.4
29	46.5	46.2
30	46.8	46.3
31	47.6	46.5



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

January 2013

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Permit	Article 21	Article 56	Settlement Water		
	No.	Structure	Mile						Balanced	Excess	
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	952						
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	0						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0						
				Solano County Water Agency Fairfield / Vacaville 42"	0						
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23		0						
		Cordelia Pumping Plant & Cordelia Spillway	21.30		916						
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	0						
				Solano County Water Agency Benicia	0						
		Cordelia Surge Tank	23.33		0						
		Creston Surge Tank Connection	25.65		0						
			26.95	Napa County Flood Control & WCD American Canyon 2	0						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	736			736			
			27.60	Napa County Flood Control & WCD American Canyon 1	180				180		

Table 9. Delta Field Division Plant Data

(in acre-feet)

January 2013

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	29	27	4,424	4,424	0	0	223	0	0	0
2	28	28	6,103	6,103	0	0	223	0	0	0
3	29	28	5,011	5,011	0	0	223	0	0	0
4	29	29	3,677	3,677	0	0	223	0	0	0
5	29	27	3,611	3,611	0	0	187	0	0	0
6	32	34	118	118	0	0	0	0	0	5
7	25	20	6,176	6,176	0	0	88	0	0	54
8	32	30	7,971	7,971	0	0	163	0	0	0
9	32	33	8,983	8,983	0	0	213	0	0	0
10	20	19	8,405	8,405	0	0	260	0	0	0
11	33	29	6,803	6,803	0	0	305	0	0	0
12	33	32	6,950	6,950	0	0	224	0	0	0
13	33	32	7,167	7,167	0	0	191	0	0	0
14	27	28	4,956	4,956	0	0	190	0	0	0
15	34	34	5,133	5,133	0	0	148	0	0	0
16	28	27	5,067	5,067	0	0	146	0	0	0
17	29	29	7,273	7,273	0	0	113	0	0	0
18	38	36	7,821	7,821	0	0	110	0	0	0
19	29	29	7,915	7,915	0	0	42	0	0	0
20	37	35	7,168	7,168	0	0	127	0	0	0
21	30	28	7,168	7,168	0	0	127	0	0	0
22	40	39	7,168	7,168	0	0	105	0	0	0
23	30	28	5,506	5,506	0	0	90	0	0	0
24	30	29	4,682	4,682	0	0	100	0	0	0
25	29	28	2,184	2,184	0	0	77	0	0	0
26	28	28	2,513	2,513	0	0	96	0	0	0
27	32	28	2,974	2,974	0	0	96	0	0	0
28	38	37	1,733	1,733	0	0	134	0	0	0
29	28	29	1,984	1,984	0	0	171	0	0	0
30	29	28	2,838	2,838	0	0	191	0	0	0
31	32	28	2,973	2,973	0	0	191	0	0	0
Total	952	916	162,455	162,455	0	0	4,777	0	0	59

Table 10. Clifton Court Forebay

Daily Operation of Gates

January 2013

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	00:01	02:30	05:30	18:45	21:00						3,963
2		03:00	06:00	19:45	21:45						4,780
3	00:00	03:45	06:45	20:45	22:45						5,935
4		04:30	07:30	22:00							3,961
5	00:15	09:15	11:00	19:00	23:00						3,960
6		10:15	13:45	20:00	23:00						3,083
7		11:30	14:30	21:50							4,592
8	00:15	12:30	15:30	22:00							6,661
9	01:00	13:30	16:15	21:15	22:30	22:45					7,610
10	01:45	14:30	17:15	23:45							8,663
11	02:45	15:30	18:00								8,090
12		00:30	03:30	16:15	19:00						7,916
13		01:15	04:15	17:15	19:45	23:00					6,931
14	00:01	01:45	04:15	18:15	20:30	22:30					4,956
15	05:30	19:15									4,939
16	00:01	03:15	06:15	19:30							5,948
17	00:01	04:00	07:00	20:50							6,930
18	00:01	00:45	12:00	18:30	21:30						7,928
19		00:45	13:00	19:30	22:30						7,915
20		10:45	13:45	18:55							6,941
21	00:01	11:45	14:30	18:40							6,937
22	00:30	13:00	15:15	18:10							6,936
23	00:15	13:45	16:00	19:25							6,924
24	02:00	14:30	16:45	21:25							4,940
25	02:30	13:00									1,969
26	03:00	14:30									1,976
27	05:50	16:05									1,964
28	00:01	01:00	04:00	15:05							1,969
29	00:01	01:30	04:30	13:30							1,963
30	00:01	02:00	05:00	18:30							2,967
31	00:01	02:30	03:30	19:15							2,973
Total inflow for the month in AF:											163,220

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)						January 2013				
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	USBR	Local	Loan Water	Dry Year Purchase	
	No.	Structure	Mile							
1A			1.83	Byron-Bethany I.D.	49			49		
1	1	Banks Pumping Plant	3.32		162,455					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	4,777					
		Check No. 1	5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0					
2A	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	0					
				Outflow to Delta Mendota Canal from California Aqueduct	0					
	2	Check No. 2	12.01							
	3		12.47	Musco Olive	21		21			
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
2B	8		42.46	Oak Flat Water District-A	2	2				
			42.9	Western Hills WD	30	30				
			43.81	Oak Flat Water District-B	0					
			44.64	Oak Flat Water District-C	0					
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	0					
				Oak Flat Totals:	2	2	0	0	0	0
		Check No. 9	51.3							
	10	Check No. 10	56.86							
	11	Check No. 11	61.4							
	12		66.14	Veteran's Cemetery	3	3				
		Check No. 12	66.71		157,241					

Table 12. South Bay Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

January 2013

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Article 56	Article 14B	Local	Rec.	
	No.	Structure	Mile							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	4,777					
			3.17	Granite - Vasco Rd. (Temp.)	0					
			3.18	Oakland Scavenger Zone 7	4	4				
		Check No. 1	3.91							
	2	Check No. 2	5.21							
			7.15	Zone 7 Altamont						
		Check No. 3	9.49	Zone 7 Patterson Storage Exchange	0					
4	6			Zone 7 Patterson Project Water	937	937				
		Check No. 4	10.68							
		Check No. 5	12.29							
			13.55	Zone 7 Wente #1	5	5				
			14.16	Zone 7 Wente #2	2	2				
			14.31	Ising Project Water	0					
		Check No. 6	14.65							
	8		14.78	Zone 7 Arroyo Mocho Project Water	315	315				
		Check No. 7	16.38							
			16.57	Zone 7 Wente #3	0					
			16.63	Zone 7 Wente #4	3	3				
			16.69	Zone 7 Norman Nursery	0					
			16.70	Zone 7 Concannon Project Water	0					
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0					
5	8			Pumped into South Bay Aqueduct	0					
				Gravity into South Bay Aqueduct	59					
		Del Valle Branch Pipeline		Arroyo Valley #1 & #2 Storage Exchange:						
				Project Water	0					
				Storage Released	0					
				Inflow Exchange	147					
6	8			East Bay Regional Park Dist.						
				Del Valle Recreation	2					
				Zone 7 Wente #5	15	15				
				So. Livermore Project	0					
7	8	La Costa Tunnel	19.20	So. Livermore Inflow Released	0					
				So. Livermore Stored Exchanged	0					
			19.21	Zone 7 - Kalthrof Detjens	1	1				
8	8	Mission Tunnel	22.50	ACWD Vallecitos Project Water	0					
			25.97	City of San Francisco San Antonio	0					
9	8	Santa Clara Pipeline	28.97	ACWD - Bayside 1 & 2 Project Water	1,184	1,184				
				Storage Released	0					
				Storage Exchange:	0					
			35.86	S.C.V.W.D. Meter	2,213					

Table 13. Lake Del Valle Daily Operation											
January 2013											
Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Dec 31	696.24	35,308									
1	696.31	35,353	46	49	0	0	0	1	2	3	0.00
2	696.38	35,399	46	49	0	0	0	1	2	3	0.00
3	696.43	35,432	33	34	0	0	0	0	2	2	0.00
4	696.48	35,465	33	34	0	0	0	0	1	1	0.00
5	696.53	35,498	33	36	0	0	0	0	3	3	0.00
6	696.60	35,544	46	52	0	0	5	0	1	6	0.31
7	696.55	35,511	-33	21	0	0	54	0	0	54	0.05
8	696.61	35,551	40	40	0	0	0	0	0	0	0.00
9	696.62	35,557	7	7	0	0	0	0	1	1	0.00
10	696.67	35,590	33	33	0	0	0	0	0	0	0.03
11	696.69	35,604	13	14	0	0	0	0	1	1	0.00
12	696.72	35,623	20	22	0	0	0	0	2	2	0.11
13	696.74	35,637	13	16	0	0	0	0	2	2	0.00
14	696.75	35,643	7	9	0	0	0	0	2	2	0.00
15	696.77	35,656	13	15	0	0	0	0	2	2	0.00
16	696.78	35,663	7	8	0	0	0	0	2	2	0.00
17	696.80	35,676	13	16	0	0	0	0	3	3	0.00
18	696.82	35,689	13	16	0	0	0	0	2	2	0.00
19	696.84	35,703	13	16	0	0	0	0	2	2	0.00
20	696.85	35,709	7	9	0	0	0	0	3	3	0.00
21	696.86	35,716	7	10	0	0	0	0	3	3	0.00
22	696.88	35,729	13	16	0	0	0	0	3	3	0.00
23	696.89	35,736	7	9	0	0	0	0	2	2	0.00
24	696.96	35,782	46	46	0	0	0	0	0	0	0.10
25	696.98	35,795	13	14	0	0	0	0	0	0	0.62
26	697.02	35,822	26	27	0	0	0	0	1	1	0.00
27	697.05	35,842	20	21	0	0	0	0	1	1	0.00
28	697.10	35,875	33	35	0	0	0	0	3	3	0.00
29	697.13	35,895	20	24	0	0	0	0	4	4	0.00
30	697.16	35,914	20	23	0	0	0	0	3	3	0.00
31	697.17	35,921	7	12	0	0	0	0	6	6	0.00
Total		613	734	0	0	59	2	60	121	1.22	

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

January 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Dec 31	221.40	46,810											
1	221.63	47,414	604	0	1,370	0	2,460	0	2,010	1,337	4	-174	
2	222.29	49,155	1,741	0	1,968	0	2,529	0	2,010	1,421	4	-184	
3	223.48	52,330	3,175	0	2,529	0	2,534	0	2,010	1,266	1	-185	
4	224.01	53,754	1,424	0	2,009	0	1,764	0	2,020	953	1	-81	
5	222.15	48,783	-4,971	0	1,541	0	1,650	0	4,016	1,602	1	-78	
6	219.97	43,074	-5,709	0	2,154	0	37	0	3,969	960	1	-139	
7	221.95	48,255	5,181	0	2,642	0	3,342	0	2,470	855	1	-46	
8	223.38	52,062	3,807	0	1,035	0	3,694	125	1,990	635	1	-59	
9	223.20	51,580	-482	0	15	0	4,262	190	3,965	204	1	-160	
10	222.61	50,006	-1,574	0	0	0	4,133	172	3,963	757	1	-34	
11	221.29	46,521	-3,485	0	0	0	3,323	179	3,942	798	1	-160	
12	220.90	45,498	-1,023	0	1,913	0	3,276	0	3,906	1,703	1	-95	
13	220.47	44,374	-1,124	0	2,221	0	3,590	0	3,900	2,434	1	-43	
14	221.09	45,996	1,622	0	2,599	0	2,451	0	2,676	1,446	1	-109	
15	221.86	48,019	2,023	0	2,534	0	2,432	0	1,950	1,833	1	-162	
16	220.56	44,609	-3,410	0	2,183	0	2,146	0	3,886	2,147	1	-14	
17	220.91	45,525	916	0	691	0	3,812	0	2,412	1,663	2	36	
18	221.35	46,679	1,154	0	707	0	4,028	0	1,930	2,128	2	-93	
19	221.92	48,176	1,497	0	870	0	3,844	0	1,937	2,065	2	45	
20	221.87	48,045	-131	0	874	0	3,523	0	1,936	2,570	2	45	
21	222.07	48,571	526	0	757	0	3,702	0	1,930	2,304	2	42	
22	222.03	48,464	-107	0	800	0	3,346	0	1,930	2,234	2	-34	
23	221.56	47,230	-1,234	0	773	0	2,947	0	1,926	2,416	2	2	
24	221.28	46,495	-735	0	1,342	0	2,326	0	1,920	2,087	2	-30	
25	219.71	42,402	-4,093	0	1,371	0	1,000	0	1,904	2,468	2	-61	
26	218.51	39,348	-3,054	0	1,867	0	1,324	0	1,887	2,799	2	-43	
27	218.52	39,373	25	0	1,675	0	1,379	0	78	2,989	2	28	
28	219.55	41,990	2,617	0	1,664	1,659	863	0	0	2,739	2	-126	
29	221.03	45,839	3,849	0	1,626	1,799	1,209	0	0	2,722	2	31	
30	222.10	48,650	2,811	0	1,616	1,790	696	0	0	2,562	2	-121	
31	223.73	53,001	4,351	0	1,544	1,631	1,652	0	0	2,623	4	-6	
Total				6,191	0	44,890	6,879	79,274	666	68,473	56,720	54	-2,008
Mean cfs					0	1,448	222	2,557	21	2,209	1,830	2	-65
Acre-feet				6,191	0	89,041	13,646	157,241	1,322	135,816	112,501	108	-3,990

1/ Pump-in located at Mile 79.67R.

2/ Includes 41 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., 1 AF to the Cattle Program and 66 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

January 2013

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Dec 31	462.46	1,098,379						
1	462.93	1,103,234	4,855	2,010	0	72	0	510
2	463.29	1,106,958	3,724	2,010	0	73	0	-60
3	463.65	1,110,686	3,728	2,010	0	71	0	-59
4	464.02	1,114,521	3,835	2,020	0	72	0	-15
5	464.78	1,122,413	7,892	4,016	0	76	0	39
6	465.53	1,130,218	7,805	3,969	0	74	0	40
7	465.97	1,134,806	4,588	2,470	0	74	0	-83
8	466.29	1,138,146	3,340	1,990	0	75	0	-231
9	467.04	1,145,986	7,840	3,965	0	73	0	61
10	467.71	1,153,005	7,019	3,963	0	73	0	-351
11	468.40	1,160,248	7,243	3,942	0	75	0	-215
12	469.10	1,167,611	7,363	3,906	0	77	0	-117
13	469.80	1,174,989	7,378	3,900	0	77	0	-103
14	470.27	1,179,951	4,962	2,676	0	71	0	-103
15	470.61	1,183,545	3,594	1,950	0	64	0	-74
16	471.30	1,190,848	7,303	3,886	0	106	0	-98
17	471.70	1,195,089	4,241	2,412	0	129	0	-145
18	472.01	1,198,379	3,290	1,930	0	144	0	-127
19	472.32	1,201,672	3,293	1,937	0	164	0	-113
20	472.63	1,204,967	3,295	1,936	0	174	0	-101
21	472.93	1,208,159	3,192	1,930	0	174	0	-147
22	473.25	1,211,567	3,408	1,930	0	168	0	-44
23	473.58	1,215,085	3,518	1,926	0	152	0	0
24	473.92	1,218,712	3,627	1,920	0	147	0	56
25	474.25	1,222,236	3,524	1,904	0	130	0	3
26	474.59	1,225,871	3,635	1,887	0	113	0	59
27	474.61	1,226,084	213	78	0	134	0	163
28	474.33	1,223,091	-2,993	0	1,659	123	0	273
29	473.97	1,219,246	-3,845	0	1,799	115	0	-24
30	473.63	1,215,618	-3,628	0	1,790	91	0	52
31	473.27	1,211,780	-3,838	0	1,631	70	0	-234
Total			113,401	68,473	6,879	3,231	0	-1,188
Mean cfs				2,209	222	104	0	-38
Acre-feet			113,401	135,816	13,646	6,404	0	-2,365

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 3,471 AF, Casa De Fruta 0 AF, and San Benito 2,933 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)								January 2013
Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal	
1	2,651	1,678	0	0	3,987	102	143	
2	2,819	1,829	0	0	3,987	102	145	
3	2,512	1,534	0	0	3,987	752	140	
4	1,890	707	0	0	4,007	3,032	142	
5	3,178	1,972	0	0	7,965	7,965	150	
6	1,904	724	0	0	7,873	7,873	147	
7	1,695	515	0	0	4,899	4,899	147	
8	1,259	53	0	0	3,947	-1	149	
9	405	-954	0	0	7,865	7,865	144	
10	1,502	1,154	0	0	7,861	7,861	145	
11	1,583	1,235	0	0	7,818	7,818	149	
12	3,377	3,029	0	0	7,747	7,747	152	
13	4,827	4,479	0	0	7,736	349	152	
14	2,869	2,521	0	0	5,308	1,471	140	
15	3,636	3,288	0	0	3,868	89	126	
16	4,258	3,910	0	0	7,708	381	210	
17	3,298	2,950	0	0	4,785	939	256	
18	4,220	3,872	0	0	3,828	3,828	285	
19	4,095	3,747	0	0	3,842	3,842	326	
20	5,097	4,749	0	0	3,841	3,841	345	
21	4,570	4,222	0	0	3,828	3,828	345	
22	4,431	4,083	0	0	3,828	3,828	334	
23	4,793	4,445	0	0	3,820	3,820	302	
24	4,140	3,792	0	0	3,808	75	291	
25	4,895	4,547	0	0	3,776	74	258	
26	5,551	5,203	0	0	3,742	73	224	
27	5,929	5,581	0	0	155	-3,571	266	
28	5,432	5,084	3,291	3,291	0	0	244	
29	5,400	5,052	3,569	3,569	0	0	228	
30	5,082	4,734	3,550	3,550	0	0	181	
31	5,203	4,855	3,236	3,236	0	0	138	
Total	112,501	94,590	13,646	13,646	135,816	78,882	6,404	

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

January 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Dec 31	321.13	17,573					
1	321.14	17,577	4	2	0	0	0
2	321.15	17,582	5	3	0	0	-1
3	321.15	17,582	0	0	0	0	0
4	321.16	17,586	4	2	0	0	0
5	321.20	17,603	17	9	0	0	-1
6	321.24	17,621	18	9	0	0	0
7	321.33	17,659	38	19	0	0	0
8	321.38	17,681	22	11	0	0	0
9	321.42	17,698	17	9	0	0	0
10	321.44	17,707	9	5	0	0	-1
11	321.46	17,716	9	5	0	0	-1
12	321.47	17,720	4	2	0	0	0
13	321.48	17,724	4	2	0	0	0
14	321.48	17,724	0	0	0	0	0
15	321.48	17,724	0	0	0	0	0
16	321.51	17,737	13	7	0	0	-1
17	321.53	17,746	9	5	0	0	-1
18	321.53	17,746	0	0	0	0	0
19	321.54	17,750	4	2	0	0	0
20	321.55	17,755	5	3	0	0	-1
21	321.56	17,759	4	2	0	0	0
22	321.57	17,763	4	2	0	0	0
23	321.57	17,763	0	0	0	0	0
24	321.59	17,772	9	5	0	0	-1
25	321.60	17,776	4	2	0	0	0
26	321.60	17,776	0	0	0	0	0
27	321.60	17,776	0	0	0	0	0
28	321.60	17,776	0	0	0	0	0
29	321.60	17,776	0	0	0	0	0
30	321.60	17,776	0	0	0	0	0
31	321.61	17,781	5	3	0	0	-1
Total			208	109	0	0	-8
Mean cfs				4	0	0	
Acre-feet			208	216	0	0	-8

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

January 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Dec 31	602.20	803					
1	No Obseration						
2	No Obseration						
3	No Obseration						
4	602.20	803	0	0	0	0	0
5	No Obseration						
6	No Obseration						
7	No Obseration						
8	No Obseration						
9	No Obseration						
10	No Obseration						
11	Unreadable						
12	No Obseration						
13	No Obseration						
14	No Obseration						
15	No Obseration						
16	No Obseration						
17	No Obseration						
18	No Obseration						
19	No Obseration						
20	No Obseration						
21	No Obseration						
22	No Obseration						
23	No Obseration						
24	No Obseration						
25	602.20	803	0	0	0	0	0
26	No Obseration						
27	No Obseration						
28	No Obseration						
29	No Obseration						
30	No Obseration						
31	602.20	803	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs				0	0	0	0
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

January 2013

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries				
	Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation	
	No.	Structure	Mile						
2B	12	Check No. 12	66.71	157,241					
3A	San Luis Reservoir			Department of Parks and Recreation					
				San Felipe Division Santa Clara Water District	3,471	3,471			
				Casa de Fruita Santa Clara Water District	0				
				San Felipe Division San Benito Water District	2,933	2,933			
				Reach 3A Subtotal:	6,404	6,404	0	0	
3	O'Neill Forebay	70.85		Department of Parks and Recreation					
				Cattle Program	1			1	
				Department of Fish & Game	41		23	18	
		70.91 Thru 85.08		San Luis Water District	66	66			
				(Floodwater Inflow)					
				Reach 3 Subtotal:	108	66	0	24	
		Dos Amigos Pumping Plant	86.73		112,501				
4	14		89.03						
			Thru 94.06	San Luis Water District	1,395	1,395			
			89.66	Pacheco Water District	348	348			
			Thru 89.67						
			89.68	Panoche Water District	77	77			
			89.70	City of Dos Palos	87	87			
		Check No. 14	95.06						
	15		98.15						
			Thru 104.20	San Luis Water District	156	156			
			96.15	Panoche Water District	340	340			
			Thru 102.64	(Floodwater Inflow)					
		102.64		Broadview Water District	0				
		105.22		Westlands Water District	2,122	2,122			
		Thru 108.64							
	Check No. 15	108.50							
			Reach 4 Subtotal:	4,525	4,525	0	0	0	
			San Felipe Division Total:	6,404	6,404	0	0	0	
			Pacheco Water District Total:	348	348	0	0	0	
			Broadview Water District Total:	0	0	0	0	0	
			City of Dos Palos Total:	87	87	0	0	0	
			SLWD Reach 4 Subtotal:	1,551	1,551	0	0	0	
			Panoche Water District Total:	417	417	0	0	0	
			SLWD Total:	1,617	1,617	0	0	0	
			Westlands WD Reach 4 Subtotal:	2,122	2,122	0	0	0	

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	No.	Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
		Structure	Mile								
5	16		110.52	(Reverse flow, Kings River)	0						
				Westlands Water District	1,811	1,811					
				Thru							
			122.05	Dept. of Fish and Game @ Lat. 4L	0						
		Check No. 16	122.07	Dept. of Fish and Game @ Lat. 6L	0						
	17		124.18	Dept. of Fish and Game @ Lat. 7L	0						
			Thru 132.74								
	Check No. 17	132.95									
	18		133.81								
			Thru 142.61	Westlands Water District	1,104	1,104					
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	2,731	2,731					
			143.16	City of Coalinga	247	247					
			Check No. 18	143.23							
				Reach 5 Subtotal:	9,219	9,219	0	0	0		
6	19		145.26	GWF Energy	0						
				City of Huron	0						
				Kings County to Lemoore NAS Through WWD	72		1/ 72				
			Thru 151.19	Kings County through WWD 30L	0						
				Westlands Water District	4,043	4,043					
		Check No. 19	155.64								
				Reach 6 Subtotal:	4,115	4,043	72	0	0		
7	20		156.34	City of Huron	56	56					
			156.40	SWP Construction @ Lat. 24R	0						
			Thru 163.69	Westlands Water District	2,677	2,677					
		Check No. 20	164.69								
	21		164.79	City of Avenal	184	184					
			167.04	Westlands Water District	1,149	1,149					
			Thru 171.67								
		Check No. 21	172.40		93,907						
				Reach 7 Total:	4,066	4,066	0	0	0		
				2/ SWP Const. / GWF Energy	0	0	0	0	0		
				Westlands WD Total:	18,963	18,963	0	0	0		
				City of Coalinga Total:	247	247	0	0	0		
				City of Huron Total:	56	56	0	0	0		
				Kings County to Lemoore NAS Through WWD	72	0	72	0	0		
				City of Avenal Total:	184	184	0	0	0		
				Total San Luis Field Division Deliveries:	28,437	28,323	72	24	18		

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
January 2013

United States			State of California						
Department of the Interior			The Resources Agency						
Bureau of Reclamation			Department of Water Resources						
Central Valley Project			State Water Project						
Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)		
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Dec 31	28,987								
1	29,168	181	82	1,337	16	9	128	1,116	-59
2	29,032	-136	78	1,421	16	9	128	1,186	-228
3	28,912	-120	83	1,266	9	2	197	1,057	-145
4	27,865	-1,047	83	953	9	2	197	795	-560
5	27,890	25	83	1,602	9	2	197	1,337	-127
6	27,151	-739	82	960	9	2	197	801	-405
7	27,731	580	73	855	9	2	197	713	286
8	28,223	492	72	635	9	2	197	530	279
9	27,369	-854	73	204	9	2	197	170	-329
10	27,483	114	74	757	24	2	249	632	134
11	27,694	211	74	798	24	2	249	666	176
12	27,288	-406	74	1,703	24	2	249	1,421	-285
13	28,117	829	74	2,434	24	2	249	2,032	217
14	28,322	205	74	1,446	24	2	249	1,207	65
15	28,101	-221	76	1,833	24	2	249	1,530	-215
16	27,812	-289	73	2,147	24	2	249	1,792	-299
17	27,754	-58	72	1,663	28	3	403	1,388	58
18	27,709	-45	70	2,128	28	3	403	1,776	-10
19	27,257	-452	82	2,065	28	3	403	1,724	-217
20	27,939	682	68	2,570	28	3	403	2,145	285
21	28,050	111	81	2,304	28	3	403	1,923	28
22	27,807	-243	71	2,234	28	3	403	1,865	-129
23	27,902	95	68	2,416	28	3	403	2,017	15
24	27,617	-285	65	2,087	63	15	430	1,742	-46
25	27,541	-76	54	2,468	63	15	430	2,060	8
26	27,640	99	56	2,799	63	15	430	2,336	39
27	27,661	21	57	2,989	63	15	430	2,495	-32
28	27,513	-148	54	2,739	63	15	430	2,286	-73
29	28,352	839	52	2,722	63	15	430	2,272	429
30	27,650	-702	52	2,562	62	15	430	2,139	-322
31	28,518	868	52	2,623	102	38	633	2,189	725
Total		-469	2,182	56,720	1,001	210	9,842	47,344	-737
Mean cfs			70	1,830	32	7	317	1,527	-24
Acre-feet		-469	4,328	112,501	1,986	417	19,522	93,907	-1,466

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 348 AF to Pacheco W.D., 87 AF to the City of Dos Palos and 1,551 AF to San Luis Water District.

3/ Includes 56 AF to the City of Huron, 184 AF to the City of Avenal, 247 AF to the City of Coalinga, 0 AF to City of Huron P&R @ 22R, 72 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DWR Water Truck @ 22R, 0 AF DFG @ 7L, 0 AF Non-Project Water, 18,963 AF to Westlands Water District.

Table 21. San Joaquin Field Division Plant Data									
(in acre-feet)									
Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	17	20	39	34	40	3,039	2,928	2,929	2,917
2	63	71	33	31	34	3,259	3,137	3,112	2,996
3	42	47	29	26	30	2,986	2,908	2,858	2,778
4	49	55	33	31	34	3,293	2,924	2,880	2,810
5	116	123	28	27	29	3,141	2,900	2,854	2,873
6	109	121	32	29	34	2,147	2,222	2,171	2,121
7	45	53	31	28	32	1,293	1,203	1,185	1,165
8	43	48	40	36	39	975	829	773	801
9	48	45	33	28	32	266	276	259	266
10	79	86	56	49	56	548	449	404	464
11	29	33	31	28	30	702	690	674	740
12	100	111	17	12	15	3,002	2,870	2,780	2,815
13	122	128	55	51	54	3,768	3,307	3,067	3,078
14	56	66	31	28	32	2,495	2,176	2,120	2,144
15	55	60	58	51	58	2,658	2,560	2,448	2,442
16	71	58	43	38	42	3,933	3,842	3,610	3,680
17	74	66	48	44	49	2,290	2,193	2,134	2,199
18	88	77	46	41	46	3,272	3,369	3,259	3,320
19	120	69	48	42	49	3,551	3,532	3,363	3,300
20	99	107	37	33	37	3,513	3,585	3,415	3,407
21	139	132	44	40	45	3,751	3,535	3,363	3,434
22	53	60	47	43	47	3,565	3,532	3,367	3,431
23	84	83	45	42	47	3,562	3,645	3,472	3,488
24	65	66	37	34	39	2,267	2,935	2,820	2,807
25	256	98	70	61	66	3,673	3,785	3,748	3,599
26	69	72	14	13	16	4,580	4,546	4,447	4,496
27	105	79	23	20	21	5,038	5,239	5,151	5,157
28	107	104	65	60	66	4,459	4,486	4,372	4,187
29	54	54	46	42	46	3,458	3,520	3,421	3,442
30	31	33	44	40	45	4,325	4,313	4,114	4,124
31	119	99	49	45	51	2,610	2,453	2,387	2,320
Total	2,507	2,324	1,252	1,127	1,261	91,419	89,889	86,957	86,801

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

January 2013

(In acre-feet)		Deliveries				
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries	
	Beginning and Ending				Table A	USBR
	No.	Structure	Mile		Pump-in Recovery	Article 56
7	21	Check No. 21	172.40	93,907		
8C	22		172.66	Empire West Side ID TL - A	367	
				County of Kings TL - A	0	
				Tulare Lake Basin WSD TL-A	60	60
			175.18	Dudley Ridge WD - 1	79	79
			177.54	Dudley Ridge WD - 1B	45	45
			180.64	Tulare Lake Basin WSD - C	0	
			180.65	Dudley Ridge WD - 1A	3	3
			182.99	Dudley Ridge WD - 2	4	4
			183.00	Tulare Lake Basin WSD TL - B	0	
			County of Kings TL-B	0		
8D			184.00	Dudley Ridge WD - Paramount	0	
			184.63	Coastal Branch	2,507	
31A			184.78	Dudley Ridge WD - 3	0	
				Dudley Ridge Reach 8D Total:	131	0
				Tulare Lake Basin WSD Total:	60	0
8D			Check No. 22	184.82		
			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	525	525
				Kern County Water Agency Lost Hills Water Dist. - 2	0	
				Kern County Water Agency Lost Hills Water Dist. - 3	0	
				Kern County Water Agency Berrenda Mesa - 2	32	32
				Kern County Water Agency Lost Hills Water Dist. - 4	0	
				K.C.W.A. Reach 9 Subtotal:	557	0
			191.18		0	557
					0	0
					0	0
					0	0
9	23		194.22	K.C.W.A. Reach 9 Subtotal:	557	0
				Kern County Water Agency Lost Hills Water Dist. - 7	63	63
				Kern County Water Agency Lost Hills Water Dist. - 5	10	10
				Kern County Water Agency Lost Hills Water Dist. - 8	0	
				Kern County Water Agency Semitropic WSD - 3	0	
				Check No. 23	197.05	
			201.24	Kern County Water Agency Belridge Water Storage Dist. - 1A	5	5
				Kern National Wildlife Refuge USBR BV-1B	2,685	2,685
				Kern County Water Agency Buena Vista WSD 1B	0	
				KCWA Semitropic WSD	6,257	6,257
10A	24		202.05	KCWA Semitropic WSD Penstocks	846	846
				USBR Total:	2,685	2,685
			205.26	K.C.W.A. Reach 10A Subtotal:	7,181	0
					0	0
					7,181	0
					0	0
					0	0
10A	25		209.78	K.C.W.A. Reach 10A Subtotal:	7,181	0
					0	0
					7,181	0
					0	0
			209.80	USBR Total:	2,685	2,685
				K.C.W.A. Reach 10A Subtotal:	7,181	0
					0	0
					7,181	0

1/ Article 12E, short term table A carryover.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Pump-in Recovery	Article 56	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0							
			214.11	Kern County Water Agency Belridge - 3	15			15				
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	1,485			1,485				
				Kern County Water Agency Belridge - 5D	112			112				
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	1,612	0	0	1,612	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0							
				Kern County Water Agency West Kern - 3	237			237				
		Check No. 26	224.92									
			230.37	Kern County Water Agency Buena Vista - 6	0							
12E	27		Check No. 27	231.73								
		235.75	Kern County Water Agency Buena Vista - 2	0								
		238.04	Kern County WA CVC	152			152					
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda DWR Wells	0								
	Check No. 28	238.11										
			1/ Arvin Edison Total:	0	0	0	0	0	0			
			Reach 12E Subtotal:	152	0	0	152	0	0			
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	90			90				
			243.09	Kern County Water Agency Buena Vista - 3	362			362				
			Check No. 29	244.54								
			249.85	Kern County Water Agency Buena Vista - 4	0							
			Buena Vista Pumping Plant	250.99			91,419					
				K.C.W.A. Reach 13B Subtotal:	452	0	0	452	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID and Pixley ID.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2013

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pump-in Recovery	Article 56	Other		
	No.	Structure										
14A	31	Check No. 31	256.14									
	32		258.61	K.C.W.D. Wheeler Ridge-Maricopa - 2	13			13				
				K.C.W.D. Wheeler Ridge-Maricopa - 3	3			3				
			260.44	K.C.W.D. Wheeler Ridge-Maricopa - 4	202			202				
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	218	0	0	218	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	620			620				
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	197			197				
	Check No. 33	267.36										
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	343			343				
			271.27									
				Reach 14B Total:	1,160	0	0	1,160	0	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	241			241				
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	128			128				
			277.30	Kern County Water Agency Arvin-Edison WSD	0							
				Reach 14C Total:	369	0	0	369	0	0		
	Teerink Pumping Plant	278.13			89,889							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	43			43				
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	68			68				
				Reach 15-A Total:	111	0	0	111	0	0		
	Chrisman Pumping Plant	280.36			86,957							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
			283.95									
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	15			15				
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	0							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
			287.09									
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0							
	39		290.21									
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	265			265				
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	0							
				Kern County Water Agency Tehachapi Cummings CWD	0							
				K.C.W.A. Reach 16A Subtotal:	280	0	0	280	0	0		
17E	Edmonston Pumping Plant	293.45			86,801							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

January 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Pump-in Recovery	Article 56	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		2,507						
		Las Perillas Pumping Plant	1.16		2,507						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		2,324						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34		0						
	C-5	Coastal Check No. 5	12.20		0						
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0						
			14.83	Kern County Water Agency Berrenda Mesa - 1	1,067			1,067			
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		1,252						
				K.C.W.A. Reach 31A Subtotal:	1,067	0	0	1,067	0	0	
				K.C.W.A. Total:	13,396	0	0	13,396	0	0	
33A	C-7	Bluestone Pumping Plant	19.05		1,127						
	C-8	Polonio Pass Pumping Plant	26.54		1,261						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	929				929		
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	331				331		
		Energy Dissipater	78.12								
		Lopez T.O.	85.86	SLOCFC & WCD	0						
35	C-12			CCWA Total:	1,260	0	0	0	1,260	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0						
		Tank Site 5	115.42								

Table 24. Southern Field Division Plant Data

(in acre-feet)

January 2013

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Date	Oso Pumping Plant	West Branch					East Branch							East Branch Extension				
		Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley	
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume					
28	1	581	418	0	0	443	0	0	0	2,025	2,081	2,156	0	0	1,866	58	58	29
	2	479	430	0	0	670	0	0	0	2,143	2,359	2,202	0	0	1,823	58	58	29
	3	428	430	0	0	455	0	0	0	2,112	2,256	2,113	0	0	1,755	58	58	29
	4	375	433	0	0	828	0	0	0	1,718	2,348	2,272	0	0	1,732	58	58	31
	5	698	431	0	0	143	0	0	0	2,000	2,288	2,073	0	0	612	59	59	31
	6	1,172	430	0	0	151	0	0	0	992	1,147	904	0	0	489	60	60	31
	7	683	428	0	0	686	0	0	0	0	0	13	0	0	467	60	60	32
	8	570	431	0	0	514	0	0	0	87	0	156	0	0	679	60	60	32
	9	352	436	0	0	486	0	0	0	0	0	0	13	0	639	60	60	32
	10	165	436	0	0	696	0	0	0	149	0	0	14	0	634	60	60	31
	11	451	421	0	0	131	0	0	0	579	247	0	13	244	725	60	60	30
	12	423	433	0	0	255	0	0	0	2,149	2,012	0	0	1,710	1,608	60	60	30
	13	531	661	0	0	323	0	0	0	2,063	2,030	0	0	2,324	1,772	60	60	30
	14	443	1,192	0	0	1,417	0	0	0	1,439	1,963	0	0	1,937	1,795	64	60	30
	15	689	949	0	0	1,140	0	0	0	1,512	1,545	0	0	1,527	1,793	71	63	30
	16	1,011	1,383	0	0	1,221	0	0	0	1,620	1,567	1,248	0	363	1,865	24	22	8
	17	1,539	1,128	0	0	1,141	0	0	0	1,240	1,380	1,210	0	0	1,822	18	18	6
	18	949	1,125	0	0	1,093	0	0	0	2,211	2,194	2,186	0	0	2,005	67	67	30
	19	1,007	1,066	0	0	313	0	0	0	2,124	2,408	2,361	0	0	2,246	60	60	14
	20	951	1,064	0	0	204	0	0	0	2,017	2,053	2,116	0	0	2,151	40	40	0
	21	1,323	1,413	0	0	1,327	0	0	0	1,843	1,944	1,935	0	0	2,113	50	50	9
	22	1,382	1,685	0	0	1,277	0	0	0	1,587	1,944	1,691	0	0	2,331	60	60	17
	23	1,412	1,370	0	0	2,829	0	0	0	1,575	1,815	1,899	0	0	2,261	59	59	17
	24	1,214	1,278	0	0	2,192	0	0	0	1,364	1,520	1,499	0	0	2,165	57	59	17
	25	1,645	1,277	0	0	1,770	0	0	0	1,661	1,854	1,910	0	0	2,012	60	59	17
	26	1,426	1,328	0	0	82	0	0	0	3,066	3,429	3,310	0	0	1,869	60	60	17
	27	1,864	1,291	0	0	32	0	0	0	2,868	2,932	3,216	0	0	1,781	60	60	17
	28	1,650	1,513	0	0	2,696	0	0	0	2,603	2,590	2,464	0	0	1,837	60	60	16
	29	1,337	1,474	0	0	2,476	0	0	0	1,702	1,912	1,786	0	0	1,925	60	60	16
	30	1,700	1,512	0	0	2,183	0	0	0	2,182	2,349	2,350	0	0	1,854	60	60	17
	31	734	1,038	0	0	927	0	0	0	1,090	1,429	1,453	0	0	1,768	60	60	17
Total		29,184	28,904	0	0	30,101	0	0	0	49,721	53,596	44,523	40	8,105	50,394	1,761	1,749	692

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

(in acre-feet except as noted)

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	Natural	Del. To United W.A.		
Dec 31	2,576	167,908											
1	2,576	167,882	-26	0	418	0	15	443	0	16	0	0	
2	2,576	167,767	-115	0	430	0	15	670	0	16	0	126	
3	2,576	167,613	-154	0	430	0	15	455	0	16	0	-128	
4	2,576	167,127	-486	0	433	0	15	828	0	16	0	-90	
5	2,576	167,383	256	0	431	0	15	143	0	16	0	-31	
6	2,576	167,792	409	0	430	0	16	151	0	16	0	130	
7	2,576	167,849	57	0	428	0	17	686	0	16	0	314	
8	2,576	167,345	-504	0	431	0	16	514	0	16	0	-421	
9	2,576	167,281	-64	0	436	0	16	486	0	16	0	-14	
10	2,576	167,153	-128	0	436	0	16	696	1	16	0	133	
11	2,576	167,268	115	0	421	0	17	131	0	16	0	-176	
12	2,576	167,383	115	0	433	0	16	255	0	16	0	-63	
13	2,576	167,639	256	0	661	0	16	323	0	16	0	-82	
14	2,576	167,460	-179	0	1,192	0	15	1,417	0	16	0	47	
15	2,576	167,357	-103	0	949	0	15	1,140	0	16	0	89	
16	2,576	167,421	64	0	1,383	0	16	1,221	0	16	0	-98	
17	2,576	167,294	-127	0	1,128	0	17	1,141	0	16	0	-115	
18	2,576	167,306	12	0	1,125	0	16	1,093	0	16	0	-20	
19	2,577	168,023	717	0	1,066	0	16	313	0	16	0	-36	
20	2,577	168,870	847	0	1,064	0	16	204	0	16	0	-13	
21	2,577	168,896	26	0	1,413	0	16	1,327	0	16	0	-60	
22	2,578	169,321	425	0	1,685	0	16	1,277	0	16	0	17	
23	2,576	167,844	-1,477	0	1,370	0	16	2,829	0	16	0	-18	
24	2,576	167,051	-793	0	1,278	0	22	2,192	1	16	0	116	
25	2,575	166,655	-396	0	1,277	0	24	1,770	0	16	0	89	
26	2,576	167,792	1,137	0	1,328	0	24	82	0	16	0	-117	
27	2,578	169,282	1,490	0	1,291	0	20	32	0	16	0	227	
28	2,576	167,882	-1,400	0	1,513	0	19	2,696	0	16	0	-220	
29	2,576	166,808	-1,074	0	1,474	0	19	2,476	0	17	0	-74	
30	2,575	166,108	-700	0	1,512	0	18	2,183	0	18	0	-29	
31	2,575	166,210	102	0	1,038	0	18	927	0	18	0	-9	
Total				-1,698	0	28,904	0	528	30,101	2	501	0	-526

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Dec 31	1512.93	20,329								
1	1514.03	20,769	440	443	0	0	0	0	-3	
2	1510.92	19,540	-1,229	670	0	0	0	1,919	20	
3	1507.91	18,389	-1,151	455	0	0	0	1,572	-34	
4	1510.24	19,277	888	828	0	0	0	0	60	
5	1510.42	19,346	69	143	0	0	0	0	-74	
6	1510.86	19,517	171	151	0	0	0	0	20	
7	1512.56	20,183	666	686	0	0	0	0	-20	
8	1513.81	20,680	497	514	0	0	0	0	-17	
9	1510.93	19,544	-1,136	486	0	0	0	1,656	34	
10	1508.99	18,798	-746	696	0	0	0	1,410	-32	
11	1509.27	18,904	106	131	0	0	0	0	-25	
12	1509.93	19,157	253	255	0	0	0	0	-2	
13	1510.81	19,497	340	323	0	0	0	0	17	
14	1514.32	20,885	1,388	1,417	0	0	0	0	-29	
15	1512.77	20,266	-619	1,140	0	0	0	1,786	27	
16	1507.51	18,239	-2,027	1,221	0	0	0	3,249	1	
17	1505.38	17,449	-790	1,141	0	0	0	1,897	-34	
18	1507.93	18,396	947	1,093	0	0	0	199	53	
19	1508.59	18,646	250	313	0	0	0	0	-63	
20	1509.12	18,847	201	204	0	0	0	0	-3	
21	1512.56	20,183	1,336	1,327	0	0	0	0	9	
22	1510.88	19,524	-659	1,277	0	0	0	1,978	42	
23	1509.63	19,042	-482	2,829	0	0	0	3,387	76	
24	1507.73	18,321	-721	2,192	0	0	0	2,889	-24	
25	1510.29	19,296	975	1,770	0	0	0	741	-54	
26	1510.46	19,362	66	82	0	0	0	0	-16	
27	1510.64	19,431	69	32	0	0	0	0	37	
28	1517.23	22,075	2,644	2,696	0	0	0	0	-52	
29	1517.45	22,167	92	2,476	0	0	0	2,426	42	
30	1511.99	19,958	-2,209	2,183	0	0	0	4,344	-48	
31	1506.43	17,836	-2,122	927	0	0	0	3,048	-1	
Total				-2,493	30,101	0	0	32,501	-93	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow				Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows	Released To Castaic Lagoon		
				Natural	Project						
Dec 31	1500.06	291,312									
1	1499.82	290,808	-504	0	0	0	474	0	0	-30	
2	1500.41	292,048	1,240	0	1,919	0	721	0	0	42	
3	1500.66	292,574	526	0	1,572	0	971	0	0	-75	
4	1500.14	291,480	-1,094	0	0	0	1,103	0	0	9	
5	1499.58	290,305	-1,175	0	0	0	1,154	0	0	-21	
6	1499.14	289,383	-922	0	0	1	1,006	0	0	83	
7	1498.54	288,129	-1,254	0	0	1	1,186	0	0	-69	
8	1497.94	286,879	-1,250	0	0	1	1,265	0	0	14	
9	1498.13	287,274	395	0	1,656	1	1,296	0	0	34	
10	1498.06	287,129	-145	0	1,410	1	1,313	0	0	-243	
11	1497.42	285,797	-1,332	0	0	1	1,318	10	0	-5	
12	1496.86	284,636	-1,161	0	0	1	1,118	10	0	-34	
13	1496.34	283,559	-1,077	0	0	1	1,051	10	0	-17	
14	1495.73	282,300	-1,259	0	0	1	1,230	10	0	-20	
15	1495.97	282,795	495	0	1,786	1	1,267	10	0	-15	
16	1496.97	284,864	2,069	0	3,249	1	1,090	10	0	-81	
17	1497.33	285,610	746	0	1,897	1	1,122	10	0	-20	
18	1496.70	284,304	-1,306	0	199	1	1,416	10	0	-80	
19	1495.98	282,815	-1,489	0	0	1	1,483	10	0	3	
20	1495.22	281,249	-1,566	0	0	1	1,507	10	0	-50	
21	1494.46	279,688	-1,561	0	0	1	1,564	10	0	12	
22	1494.57	279,914	226	0	1,978	1	1,637	4	0	-112	
23	1495.46	281,743	1,829	0	3,387	1	1,548	0	0	-11	
24	1496.25	283,373	1,630	0	2,889	1	1,423	0	0	163	
25	1496.05	282,960	-413	0	741	1	1,156	10	0	11	
26	1495.58	281,990	-970	0	0	1	1,045	10	0	84	
27	1495.05	280,899	-1,091	0	0	1	938	10	0	-144	
28	1494.49	279,749	-1,150	0	0	1	1,175	10	0	34	
29	1495.18	281,167	1,418	0	2,426	1	1,022	10	0	23	
30	1496.73	284,366	3,199	0	4,344	1	907	7	0	-232	
31	1497.77	286,525	2,159	0	3,048	1	893	0	0	3	
Total				-4,787	0	32,501	26	36,399	171	0	
										-744	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

January 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	Rec.	Article 56	Article 14B	Other		
	No.	Structure										
29A	42	Oso Pumping Plant	1.49		29,184							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07	(0 AF of flow through Gorman Creek Improvement Channel)	28,904							
29H	W3	Pyramid Lake		USFS Pyramid Recreation (T300)	2		2					
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(0 AF pump-back) 2I	30,101							
		Elderberry Forebay			0							
		Forebay Dam	28.12		0							
30 1/	W5	Castaic Lake		California State Park Castaic Lake Recreation (T301)	3		3					
		Castaic Dam	31.47		0							
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	34,966			34,966				
				Castaic Lake WA 18", 24" & 54" (T303)	284			284				
				Castaic Lake WA (T304)	1,146	530		616				
				MWD-Ventura Co. WPD (T302)	0							
					0							
				Disposition of Natural inflows	171							
				Releases to Castaic Lagoon	0							
				Reach 30 Subtotal:	36,399	530	3	35,866	0	0		
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.87		184							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River				
							Delivered to CLAWA	Rec.	San Bernardino Tunnel						
Dec 31	3349.83	70,016													
1	3350.11	70,280	264	2,156	0	5	3	0	1,866		0	-28	13		
2	3350.42	70,572	292	2,202	0	5	3	0	1,823		0	-89	14		
3	3350.81	70,941	369	2,113	0	5	3	0	1,755		1	10	14		
4	3351.23	71,340	399	2,272	0	5	3	0	1,732		0	-143	15		
5	3352.92	72,955	1,615	2,073	0	5	4	0	612		0	153	14		
6	3353.14	73,166	211	904	0	5	6	0	489		1	-202	14		
7	3352.22	72,280	-886	13	0	5	5	0	467		0	-432	14		
8	3352.13	72,197	-83	156	0	4	4	0	679		0	440	14		
9	3351.40	71,501	-696	13	0	4	5	0	639		1	-68	14		
10	3350.95	71,074	-427	14	0	6	2	0	634		0	189	14		
11	3350.39	70,544	-530	13	244	6	2	0	725		0	-66	12		
12	3350.42	70,572	28	0	1,710	4	1	1	1,608		1	-75	12		
13	3351.12	71,235	663	0	2,324	4	1	0	1,772		0	108	12		
14	3351.01	71,131	-104	0	1,937	4	1	0	1,795		0	-249	11		
15	3350.87	70,998	-133	0	1,527	5	1	0	1,793		1	130	11		
16	3350.47	70,620	-378	1,248	363	4	1	0	1,865		0	-127	11		
17	3349.91	70,092	-528	1,210	0	4	1	0	1,822		0	81	11		
18	3350.05	70,223	131	2,186	0	4	3	0	2,005		1	-50	11		
19	3350.19	70,355	132	2,361	0	4	5	0	2,246		0	18	11		
20	3350.02	70,195	-160	2,116	0	4	4	0	2,151		0	-125	11		
21	3349.88	70,063	-132	1,935	0	4	1	0	2,113		1	44	11		
22	3349.13	69,360	-703	1,691	0	4	8	0	2,331		0	-59	11		
23	3348.45	68,725	-635	1,899	0	4	4	0	2,261		0	-273	11		
24	3348.03	68,335	-390	1,499	0	9	4	1	2,165		1	273	11		
25	3348.03	68,335	0	1,910	0	24	5	0	2,012		0	83	11		
26	3349.55	69,753	1,418	3,310	0	21	5	0	1,869		0	-39	11		
27	3351.12	71,235	1,482	3,216	0	15	3	1	1,781		1	37	11		
28	3351.79	71,873	638	2,464	0	12	5	0	1,837		0	4	11		
29	3351.57	71,663	-210	1,786	0	11	6	0	1,925		0	-76	11		
30	3352.07	72,140	477	2,350	0	10	1	0	1,854		0	-28	11		
31	3351.79	71,873	-267	1,453	0	10	1	0	1,768		0	39	11		
Total				1,857	44,563	8,105	216	102	3	50,394	0	9	-520	374	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

January 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Dec 31	1560.27	69,417				
1	1560.19	69,271	-146		145	
2	1560.14	69,180	-91		273	
3	1559.73	68,434	-746		272	
4	1559.62	68,235	-199		273	
5	1559.37	67,784	-451		274	
6	1559.29	67,640	-144		274	
7	1559.01	67,137	-503		254	
8	1559.01	67,137	0		275	
9	1558.79	66,743	-394		284	
10	1558.71	66,600	-143		250	
11	1558.49	66,207	-393		309	
12	1558.19	65,674	-533		321	
13	1558.16	65,621	-53		343	
14	1557.94	65,231	-390		257	
15	1557.97	65,284	53		141	
16	1557.88	65,125	-159		139	
17	1557.69	64,789	-336		139	
18	1557.61	64,648	-141		200	
19	1557.47	64,401	-247		139	
20	1557.23	63,979	-422		252	
21	1557.31	64,120	141		139	
22	1557.23	63,979	-141		154	
23	1557.31	64,120	141		144	
24	1557.47	64,401	281		121	
25	1557.39	64,260	-141		124	
26	1557.28	64,067	-193		120	
27	1557.06	63,681	-386		187	
28	1556.87	63,349	-332		115	
29	1556.87	63,349	0		151	
30	1556.57	62,826	-523		346	
31	1556.40	62,531	-295		253	
Total			-6,886	686	6,668	-904

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)							January 2013					
Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending											
	No.	Structure	Mile		Table A	Rec.	Article 56C	Transfer	Other			
17E	40	Edmonston Pumping Plant	293.45	86,801								
	41		298.65		KCWA Tej.-Cas	Stub						
17F		Check No. 41	303.41									
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
		Check No. 42	304.99									
18A	43	Alamo Power Plant	305.73	(Includes 0 AF generation, 0 AF plant bypass, and 49,721 AF Tehachapi Bypass)	49,721							
			306.71									
19	44		308.05	AVEK 305th Street West (T287) AVEK 294th Street West (T267)	0							
		Check No. 43	309.70									
19	45		311.84	LADWP Connection AVEK 245th Street West (T269)	0							
		Check No. 44	314.81									
19	46		314.93	AVEK 235th Street West (T270) AVEK 225th Street West (T271)	0							
		Check No. 45	315.57									
19	46		319.74	Antelope Valley-East Kern WA Fairmont (T272) Mojave Water Agency Fairmont (T272)	1,309				1,296		1/ 13	
		Check No. 46	323.84									
20A					Reach 19 Total:	1,309	0	0	1,296	0	13	
	47	Check No. 47	326.77									
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0							
			329.65									
20A	49	Check No. 48	330.82									
		Check No. 49	335.93									
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	925	925						
			339.68									
20B	51		340.92	Antelope Valley-East Kern WA Rancho Vista (T275) AVEK WA-Temp (T387)	5	5						
		Check No. 50	341.51									
20B	52		342.06	AVEK WA-Temp (T386)	0							
		Check No. 51	342.07									
20B	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
		Check No. 52	343.74									
20B	52		346.98	Palmdale WD (T276) Temp. Antelope Valley-East Kern WA Acton Treatment Plant (T277)	544	31			544			
			348.14									
21	57		348.17	AVEK WA- Delivered through Little Rock Creek ID (T278)	0							
			350.25									
21	57		352.70									
			354.76									
22A	58		354.97	Palmdale WD (T276)	0							
			354.97									
22A	58		356.93	Palmdale WD (T391)	0							
			357.60									
22A	58	Antelope Valley-East Kern WA	357.72	95th Street East (T279) 96th Street East (T280)	0							
			359.76									

1/ MWA's Article 56C delivered through Antelope Valley-East Kern Water Agency's area.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)							January 2013							
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries									
	Beginning and Ending				Table A	Rec.	Article 56C	Transfer	Local	Purch. Pool A	Article 14B			
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61											
	59	Check No. 59	366.09											
	60		366.50	AVEK Big Rock Siphon (T368)		0								
		Check No. 60	373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63		389.20	MWA (T282)		333				333				
		Check No. 63		MWA (T422)		0								
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
23	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)		350				350				
		Check No. 66	403.41											
24	Mojave Siphon	405.58		Las Flores Ranch Exchange		374					374			
	Mojave Siphon Power Plant	405.65				44,523								
	Silverwood Lake	407.65	MWA CS DAM (T288)			0								
			California State Park Silverwood (T288)			2								
		407.70	Crestline-Lake Arrowhead WA State Project Water (T289)			0								
25	San Bernardino Intake Tunnel			Non-Project Water (T289)		102								
	Devil Canyon Powerplant	412.73				50,394								
26A	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T290)			0								
			MWD-Rialto (T293)			15,147				15,147				
			MWD-Rialto (T294)			28,333				28,333				
			Desert Water Agency Transfer (T293)			0								
			Coachella Valley WD (T293)			0								
			Coachella Valley WD (T294)			0								
			San Gabriel Valley MWD (T290)			2,115								
EBX	East Branch Extension	412.88	MWD EBX-1 (T290)			0								
			MWD EBX-1 (T291)			0								
			San Bernardino Valley MWD (T290)			0								
			San Bernardino Valley MWD (T291)			2,440	440		2,000					
			San Bernardino Valley MWD (T403)			12	12							
			San Bernardino Valley MWD (T407)			1,057	1,057							
			San Gorgonio Pass WA (T413)			692			692					
			Coachella Valley (T295)			0								
			Coachella Valley (T296)			0								
			Desert Water Agency (T296)			0								
28G	Santa Ana Valley Pipeline	425.46	MWD-SC Box Springs (T295)			3,210								
			MWD-SC (T296)			0								
			433.06											
			440.05											
			442.00											
		443.44	MWD-SC (T297)			148			148					
			MWD-SC 54" & 78" (T299)			4,079			4,079					
			Coachella Valley (T2969)			0								
			Desert Water Agency (T299)			0								
			Ca. St. Pk. Lake Perris Rec. (T298)			19	19							
			MWD Total:			85,883	3,210	0	82,673	0	0	0	0	

Table 32. Water Quality At Selected SWP Locations										
Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	37	97	106	75	85	72	74	70	71
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.001
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.1
Bromide	mg/l	<0.01	0.05	0.29	0.19	0.22	0.24	0.32	0.31	0.29
Calcium	mg/l	8	15	37	25	29	22	24	23	21
Chloride	mg/l as C	1	52	101	66	78	74	91	99	86
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	33.000	112.000	176.000	121.000	142.000	113.000	118.000	113.000	104.000
Iron	mg/l	0.005	0.136	0.031	0.063	0.041	0.034	0.018	0.011	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	18	21	14	17	14	14	13	13
Manganese	mg/l	<0.005	0.042	0.019	0.026	0.015	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.170	2.110	1.520	1.450	1.000	1.000	1.000	0.540
Organic Carbon, Dissolved	mg/l	NR	12	6	6	6	4	3	3	2
Organic Carbon, Total	mg/l as N	NR	14.000	6.400	6.600	6.100	4.400	3.600	3.000	2.200
Phosphate-Ortho	mg/l as P	<0.01	0.34	0.19	0.09	0.09	0.07	NR	0.05	0.05
Phosphorus-Total	mg/l	0.01	0.52	0.28	0.11	0.16	0.09	0.09	0.07	0.08
Selenium	mg/l	<0.001	<0.001	0.00	<0.001	<0.001	<0.001	0.00	<0.001	<0.001
Sodium	mg/l	3.000	52.000	89.000	50.000	66.000	56.000	65.000	68.000	60.000
Specific Conductance	µS/cm	82	456	735	475	559	474	532	562	500
Sulfate	mg/l	2	41	102	51	66	44	43	40	32
Total Dissolved Solids	mg/l	45	251	434	276	325	270	301	310	278
Turbidity	NTU	2	38	10	7	7	2	2	1	<1
Zinc	mg/l	<0.005	<0.005	0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations														January 2013		
Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
30	1	5.35	4.05	50,241	50,241	44,108	0.22	0.14	0.15	0.18	0.20	0.26	0.45	0.74	0.50	75
	2	5.25	3.92	41,938	46,089	38,288	0.22	0.13	0.16	0.18	0.20	0.25	0.46	0.78	0.47	70
	3	5.35	3.79	35,392	42,524	33,590	0.22	0.13	0.17	0.18	0.20	0.24	0.47	0.79	0.49	68
	4	5.37	3.61	34,018	40,397	30,911	0.22	0.13	0.18	0.17	0.20	0.23	0.48	0.79	0.50	67
	5	5.77	3.73	31,677	38,653	28,620	0.22	0.16	0.19	0.17	0.20	0.22	0.48	0.80	0.50	67
	6	6.17	3.94	31,559	37,471	26,693	0.22	0.30	0.20	0.17	0.20	0.22	0.51	0.79	0.55	67
	7	6.26	3.91	31,187	36,573	25,730	0.22	0.35	0.20	0.17	0.21	0.21	0.49	0.69	0.54	65
	8	6.22	3.83	30,910	35,865	24,514	0.24	0.34	0.20	0.17	0.22	0.21	0.53	0.70	0.75	63
	9	6.57	4.09	30,277	35,244	23,583	0.24	0.50	0.22	0.18	0.22	0.21	0.58	0.73	0.74	63
	10	6.71	4.24	29,072	34,627	22,788	0.25	0.46	0.22	0.18	0.22	0.21	0.58	0.77	0.74	62
	11	6.36	3.95	24,557	33,711	21,314	0.25	0.33	0.22	0.18	0.22	0.21	0.59	0.80	0.72	57
	12	6.26	3.89	20,798	32,635	20,808	0.25	0.32	0.22	0.19	0.23	0.21	0.54	0.81	0.62	55
	13	6.03	3.88	19,714	31,641	20,063	0.25	0.31	0.22	0.19	0.23	0.21	0.00	0.82	0.55	53
	14	5.44	3.60	20,221	30,826	20,002	0.25	0.26	0.21	0.20	0.23	0.21	0.45	0.79	0.56	54
	15	5.06	3.50	19,216	30,052	19,388	0.26	0.24	0.21	0.20	0.23	0.21	0.52	0.73	0.58	47
	16	5.09	3.37	18,272	29,315	18,428	0.26	0.23	0.21	0.21	0.24	0.22	0.52	0.76	0.52	48
	17	5.25	3.36	17,485	28,620	17,293	0.26	0.24	0.22	0.21	0.24	0.22	0.54	0.82	0.67	47
	18	5.28	3.41	15,992	27,918	16,497	0.26	0.28	0.21	0.21	0.24	0.22	0.55	0.86	0.67	46
	19	5.49	3.51	15,467	27,263	16,046	0.26	0.47	0.22	0.21	0.24	0.23	0.55	0.86	0.70	47
	20	5.60	3.65	15,359	26,668	15,625	0.27	0.93	0.21	0.21	0.24	0.23	0.47	0.84	0.72	45
	21	5.63	3.73	14,553	26,091	14,913	0.30	1.38	0.21	0.22	0.24	0.23	0.47	0.84	0.74	44
	22	5.82	3.86	14,123	25,547	14,524	0.34	2.04	0.21	0.22	0.24	0.23	0.47	0.84	0.76	42
	23	6.19	4.15	13,890	25,040	14,276	0.45	3.06	0.22	0.22	0.25	0.23	0.48	0.85	0.75	41
	24	6.16	4.08	14,436	24,598	14,332	0.48	3.08	0.22	0.22	0.25	0.24	0.53	0.85	0.63	40
	25	6.10	4.07	16,642	24,280	14,738	0.48	2.90	0.22	0.22	0.25	0.24	0.56	0.87	0.75	37
	26	6.28	4.26	16,617	23,985	14,785	0.54	3.34	0.24	0.22	0.25	0.24	0.53	0.86	0.69	38
	27	5.97	4.04	17,212	23,734	15,174	0.47	2.43	0.23	0.22	0.25	0.24	0.53	0.87	0.69	37
	28	5.55	3.73	18,576	23,550	16,392	0.40	1.62	0.22	0.22	0.25	0.24	0.67	0.88	0.72	38
	29	5.13	3.46	18,727	23,384	16,640	0.36	1.02	0.21	0.22	0.25	0.24	0.69	0.75	0.73	37
	30	4.90	3.37	17,945	23,202	16,693	0.34	0.72	0.21	0.22	0.25	0.24	0.62	0.73	0.74	33
	31	5.02	3.50	17,690	23,025	16,599	0.33	0.65	0.22	0.22	0.25	0.24	0.58	0.77	0.68	38

Clifton Court Cl(mg/l)=200X EC - 25

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

January 2013

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 20, 2012	Metolachlor	0.7
California Aqueduct At Banks Pumping Plant	September 19, 2012	2,4-D	0.1
O'Niell Forebay Outlet Check 13	September 18, 2012	2,4-D	0.2
Delta Mendota Canal At McCabe Road	September 18, 2012	2,4-D	0.2
California Aqueduct Near Kettleman City (Check 21)	June 19, 2012	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.7
California Aqueduct at Tehachapi Afterbay (Check 41)	June 20, 2012	Simazine	0.02
California Aqueduct At Devil Canyon Headworks	June 20, 2012	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)		January 2013						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	3,434,904	0	5,380	14,098	1,251,008	1,251,008	179,014	940
2	3,406,249	0	5,386	14,497	1,708,376	1,708,376	180,515	956
3	3,408,812	0	5,373	14,524	1,407,248	1,407,248	179,616	965
4	3,468,861	11	5,227	15,178	1,038,208	1,038,208	179,060	972
5	1,359,853	77	5,356	13,863	1,021,840	1,021,840	150,002	985
6	1,880,791	55	6,044	17,725	34,200	34,200	206	986
7	4,041,818	0	4,606	10,797	1,745,128	1,745,128	73,056	982
8	3,512,135	0	5,981	15,716	2,245,936	2,245,936	140,080	953
9	3,526,567	55	5,691	17,286	2,523,248	2,523,248	173,362	946
10	3,495,349	0	4,117	9,811	2,364,184	2,364,184	203,878	959
11	3,486,615	0	5,891	16,629	1,912,480	1,912,480	236,975	972
12	1,511,070	0	5,996	16,238	1,953,496	1,953,496	174,229	960
13	1,735,536	11	6,178	16,489	2,025,640	2,025,640	148,722	952
14	2,742,245	0	5,384	14,517	1,412,232	1,412,232	174,642	958
15	3,176,360	0	6,607	17,807	1,478,280	1,478,280	185,987	955
16	2,087,591	0	5,367	14,548	1,468,016	1,468,016	120,971	949
17	1,703,559	0	5,364	14,585	2,054,984	2,054,984	94,506	977
18	2,041,688	11	6,949	19,167	2,200,048	2,200,048	110,580	979
19	1,827,133	0	5,391	14,723	2,229,344	2,229,344	41,790	966
20	1,787,599	0	6,762	18,358	2,012,584	2,012,584	102,995	942
21	1,809,500	11	5,378	14,744	2,011,544	2,011,544	103,215	926
22	1,818,619	0	7,227	20,139	2,010,912	2,010,912	88,572	905
23	1,822,535	209	5,358	14,741	1,549,176	1,549,176	72,887	878
24	1,799,413	66	5,350	14,739	1,332,872	1,332,872	81,781	926
25	1,946,450	22	5,382	14,767	611,504	611,504	65,346	942
26	1,822,183	11	5,388	14,775	713,344	713,344	81,365	914
27	1,833,216	0	5,379	14,766	850,904	850,904	81,004	915
28	1,826,330	0	6,904	19,097	501,856	501,856	109,588	906
29	1,702,118	0	5,398	14,713	560,352	560,352	134,446	887
30	1,706,045	0	5,376	14,731	814,520	814,520	149,897	881
31	1,691,899	11	6,069	15,149	849,888	849,888	150,970	902
Total	73,413,043	550	176,258	478,918	45,893,352	45,893,352	3,969,256	29,237

Table 36. San Luis Field Division Energy Data

(in kWh)		January 2013				
Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	392,348	248,348	0	0	1,206,744	30,744
2	409,887	265,887	0	0	1,206,898	30,898
3	366,601	274,601	0	0	1,207,954	227,954
4	275,999	155,999	0	0	1,208,295	914,295
5	444,469	324,469	0	0	2,352,471	2,352,471
6	282,172	162,172	0	0	2,351,789	2,351,789
7	255,577	135,577	0	0	1,467,378	1,467,378
8	185,954	65,954	0	0	1,175,779	-221
9	62,602	-57,398	0	0	2,339,557	2,339,557
10	215,087	215,087	0	0	2,344,287	2,344,287
11	235,586	235,586	0	0	2,343,198	2,343,198
12	480,384	432,384	0	0	2,338,567	2,338,567
13	677,111	677,111	0	0	2,337,423	105,423
14	409,919	409,919	0	0	1,626,944	450,944
15	529,286	529,286	0	0	1,203,708	27,708
16	612,247	612,247	0	0	2,348,027	116,027
17	482,350	482,350	0	0	1,463,209	287,209
18	601,128	601,128	0	0	1,171,423	1,171,423
19	582,779	582,779	0	0	1,171,170	1,171,170
20	719,026	719,026	0	0	1,171,093	1,171,093
21	642,406	642,406	0	0	1,170,246	1,170,246
22	621,772	621,772	0	0	1,170,158	1,170,158
23	679,347	679,347	0	0	1,199,308	1,199,308
24	600,680	600,680	0	0	1,199,715	23,715
25	699,916	699,916	0	0	1,199,605	23,605
26	799,146	799,146	0	0	1,199,495	23,495
27	843,728	843,728	0	0	69,817	-1,106,183
28	794,486	794,486	686,499	686,499	1,892	1,892
29	785,057	785,057	739,838	739,838	0	0
30	729,275	729,275	730,653	730,653	0	0
31	736,031	736,031	661,507	661,507	1,881	1,881
Total	16,152,356	15,004,356	2,818,497	2,818,497	41,248,031	23,750,031

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)		January 2013							
Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	2,100	4,398	27,721	25,865	28,506	713,572	770,927	1,757,129	6,571,368
2	5,113	12,432	24,493	23,078	24,891	766,181	823,610	1,876,721	6,735,231
3	3,760	8,566	21,355	20,100	21,753	704,381	764,687	1,720,587	6,267,753
4	4,426	10,449	23,758	23,251	24,827	744,206	766,804	1,737,175	6,329,367
5	9,075	22,389	22,228	20,233	21,334	743,576	775,958	1,713,250	6,425,838
6	8,288	21,724	22,939	21,707	24,370	511,189	582,640	1,310,848	4,701,213
7	3,933	9,878	22,219	21,267	23,220	313,783	320,461	719,763	2,619,783
8	3,808	8,842	28,481	26,712	28,042	234,704	222,860	469,414	1,810,620
9	4,213	9,842	24,125	21,340	23,242	66,796	78,325	165,462	626,400
10	6,268	14,930	40,046	36,187	39,759	136,451	123,309	280,951	1,067,931
11	2,905	6,376	22,774	21,702	22,320	171,052	185,411	421,036	1,654,236
12	7,804	19,929	13,117	10,381	11,825	706,435	753,871	1,702,723	6,333,417
13	9,441	23,343	38,451	36,607	38,151	880,954	854,838	1,889,624	6,905,709
14	4,957	12,717	22,552	21,947	23,279	587,173	574,866	1,299,474	4,767,066
15	4,602	10,749	40,972	37,529	41,020	642,434	675,688	1,502,853	5,409,234
16	5,428	13,596	30,531	28,780	30,101	943,538	1,010,056	2,237,356	8,314,326
17	6,433	16,004	34,427	32,695	34,991	541,904	579,841	1,322,629	4,890,267
18	7,449	18,416	32,722	30,501	33,077	779,452	892,586	2,032,767	7,481,241
19	9,508	24,539	34,099	31,515	34,626	847,831	936,182	2,092,805	7,454,133
20	7,873	19,914	26,523	24,911	27,007	838,139	950,747	2,123,869	7,682,472
21	10,798	28,494	31,119	29,811	32,147	886,583	928,787	2,093,212	7,746,624
22	4,591	11,570	33,178	31,515	33,265	840,258	923,049	2,070,926	7,691,598
23	6,720	16,323	36,049	33,899	37,478	844,281	951,381	2,140,589	7,797,303
24	5,579	13,936	26,535	25,450	27,677	695,000	767,511	1,719,894	6,318,135
25	7,743	20,216	46,132	43,850	46,305	884,545	1,001,903	2,264,273	8,125,785
26	5,473	13,334	10,163	9,950	11,474	1,097,802	1,183,169	2,669,535	10,053,639
27	8,552	20,537	16,255	14,636	14,461	1,205,226	1,363,720	3,086,919	11,521,764
28	8,565	22,845	45,236	43,212	46,393	1,059,221	1,166,060	2,623,929	9,576,144
29	4,785	11,477	32,313	30,633	32,485	812,119	923,573	2,081,607	7,676,154
30	2,998	6,635	31,658	29,652	32,182	1,028,680	1,123,483	2,515,425	9,243,504
31	9,162	21,975	34,616	32,800	35,707	631,627	643,228	1,436,985	5,170,716
Total	192,348	476,373	896,787	841,717	905,915	21,859,096	23,619,530	53,079,730	194,968,971

Table 38. Southern Field Division Energy Data

January 2013										
(in kWh)										
Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	161,417	262,081	432,000	0	1,401,665	2,362,082	165,927	35,045	49,243	4,670
2	133,873	264,927	432,000	0	1,580,783	2,282,990	159,955	34,928	49,298	4,691
3	121,657	265,172	432,000	0	1,513,522	2,166,203	162,408	35,044	49,383	4,694
4	107,640	266,320	432,000	0	1,575,953	2,157,160	173,571	35,014	49,409	5,182
5	191,629	265,486	432,000	0	1,539,669	787,327	155,438	35,891	49,691	5,529
6	317,031	265,993	432,000	0	779,945	603,166	66,467	36,482	49,784	5,524
7	189,057	264,128	432,000	0	17,507	567,608	0	36,452	49,819	5,510
8	161,383	266,520	432,000	0	16,862	857,682	8,137	36,513	49,870	5,502
9	104,108	269,563	432,000	0	15,685	761,198	0	36,560	49,927	5,497
10	58,493	269,263	432,000	0	17,938	762,880	0	36,513	49,783	5,052
11	131,090	260,091	432,000	0	183,506	917,467	0	36,339	49,693	4,651
12	124,049	266,814	432,000	0	1,347,578	2,020,234	0	36,204	49,646	4,647
13	152,240	378,548	432,000	0	1,368,409	2,192,548	0	36,334	49,656	4,650
14	130,208	680,025	912,000	0	1,342,165	2,211,358	0	39,196	49,702	4,672
15	193,528	562,869	912,000	0	1,051,343	2,209,748	0	44,023	52,893	4,670
16	302,868	831,524	912,000	0	1,062,956	2,316,442	100,918	14,112	16,106	1,565
17	288,383	700,242	912,000	0	928,213	2,241,580	97,346	13,639	17,824	1,855
18	260,259	697,348	912,000	0	1,484,018	2,477,754	169,334	40,171	54,920	4,796
19	275,360	660,228	912,000	0	1,625,756	2,779,211	188,291	35,957	49,255	2,572
20	262,015	658,517	912,000	0	1,400,214	2,677,338	173,502	23,964	32,726	779
21	359,381	831,241	1,248,000	0	1,329,353	2,624,753	153,895	30,685	42,010	1,288
22	374,081	968,728	1,248,000	0	1,332,333	2,920,460	140,116	36,553	49,895	1,748
23	382,664	805,607	1,248,000	0	1,230,330	2,928,056	155,479	35,721	49,719	1,710
24	328,209	767,975	1,248,000	0	1,036,949	2,578,734	121,099	34,102	48,082	1,677
25	439,715	767,634	1,248,000	0	1,256,768	2,483,413	149,697	35,325	49,460	1,712
26	371,610	800,809	1,248,000	0	2,307,027	2,302,078	269,483	36,116	49,823	1,739
27	497,717	777,473	1,248,000	0	1,976,159	2,187,450	259,673	36,373	49,794	1,782
28	442,856	888,173	1,440,000	0	1,756,949	2,265,286	186,288	36,267	49,757	1,782
29	361,383	865,115	1,440,000	0	1,295,694	2,385,608	143,110	36,201	49,676	1,811
30	456,830	889,291	1,440,000	0	1,591,218	2,320,589	180,378	36,374	49,864	1,775
31	203,690	643,783	1,440,000	0	976,869	2,193,001	108,290	36,417	49,928	1,775
Total	7,884,423	17,361,486	26,496,000	0	36,343,335	62,541,403	3,488,800	1,068,518	1,456,637	105,506

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.